

Mathematics 9 Semester 1 2012 -LHHS
Review for Common Assessment

Name: _____

1. $24 + 6 \times 2$

2. $(18 \div 2 - 1 \times 7) + 6$

3. $(12 - 2 \times 3) \div 2$

4. $(1 + 3^2) \times 2$

5. $(8 + 5 \times 4)^2 \div 2$

6. $(15 - 3 \times 5)^2 + 1$

7. $\frac{4 \div 2 + 2 \times 3}{2 \times 7 - 10}$

8. $\frac{24 - 3 \times 2}{4^2 - 2^2}$

9. Write the equivalent fraction.

a) $\frac{3}{8} = \frac{9}{?}$

b) $\frac{2}{3} = \frac{?}{21}$

10. Which is greater?

a) $\frac{5}{8}$ or $\frac{6}{7}$

b) $\frac{2}{3}$ or $\frac{2}{7}$

11. Express as an improper fraction.

a) $-7\frac{1}{9}$

b) $5\frac{4}{7}$

12. Express as a mixed number.

a) $\frac{-12}{5}$

b) $\frac{23}{4}$

13. Find the sum or difference. (**SUM** means to add, **DIFFERENCE** means to subtract)

a) $\frac{2}{3} + \frac{7}{15}$

b) $4 - 2\frac{5}{8}$

c) $3\frac{1}{2} + 5\frac{5}{8}$

d) $5\frac{1}{4} - 1\frac{2}{3}$

17. Multiply or divide.

a) $\frac{4}{5} \times 15$

b) $\frac{3}{7} \div \frac{15}{7}$

c) $\frac{2}{3} \div \frac{7}{9}$

18. Find the result.

a) $\frac{7}{8} \times \frac{1}{4} \div \frac{4}{8}$ b) $\frac{2}{3} \times \frac{1}{3} \div \frac{8}{9}$ c) $5\frac{1}{3} \div \frac{8}{3} \div 4\frac{1}{2}$

d) $(-24) + (-8) - (+11) - (-15) + (+9)$ e) $(30) - (29) - (-17) + (-22) - (-13)$

19. a) If Sarah ate $\frac{2}{3}$ of the cookies and Shannon ate $\frac{1}{5}$ of them, what fraction of the cookies did they eat in total? What fraction of the cookies are left?

b) In a class of 35 students, $\frac{2}{7}$ of them were absent one day. How many students were absent? How many students were in class?

20. Place $<$, $>$, $=$ to make the statement true.

a) $\frac{15}{-12}$, $\frac{-12}{15}$ b) $-\frac{4}{10}$, $\frac{2}{-5}$ c) -1.3 , $-\frac{5}{2}$

21. Multiply or divide

a) $\frac{-2}{3} \times 24$ b) $\frac{-3}{7} \div (\frac{-18}{7})$ c) $\frac{7}{36} \div (-\frac{7}{9})$

d) $\frac{-3}{-4} \div (\frac{5}{-16})$ e) $1\frac{1}{4} \div 2$ f) $5\frac{2}{3} \div -3\frac{1}{2}$

22. Find the result.

a) $-\frac{4}{3} \times (\frac{2}{-3}) \div (\frac{-8}{18})$ b) $-9\frac{1}{3} \div \frac{10}{3} \div (-4\frac{1}{2})$

23. Add and Subtract.

a) $-\frac{1}{5} - (\frac{2}{-3})$ b) $-3\frac{2}{3} + (-1\frac{1}{6})$ c) $\frac{-3}{-10} - \frac{2}{5}$

d) $-5\frac{5}{6} - 3\frac{5}{12}$ e) $2\frac{1}{2} + (\frac{-7}{10}) - \frac{3}{5}$

24. Evaluate.

a) $\sqrt{64} + \sqrt{100}$ b) $\sqrt{\frac{36}{81}}$ c) $\sqrt{36} \times \sqrt{49}$

d) $\sqrt{36 + 64}$ e) $\sqrt{16 \times 64}$ f) $\sqrt{25 + \sqrt{121}}$

25. Evaluate.

a) 5^3

b) -5^3

c) 8^3

d) $\frac{3^2}{4^2}$

e) $(-8.2)^0$

f) $\frac{6^2}{5^0}$